

1   **WE CLAIM:**

- 1   1. A disk drive comprising:  
2       (a) a disk comprising an asynchronous partition and a first and second isochronous  
3           partition, wherein the asynchronous partition is located between the first and second  
4           isochronous partitions in order to reduce the seek time for the disk drive when seeking  
5           between the asynchronous and isochronous partitions;  
6       (b) a head actuated radially over the disk; and  
7       (c) a disk controller for writing data to and reading data from the first and second  
8           isochronous partitions according to a time-constrained protocol, and for writing data  
9           to and reading data from the asynchronous partition according to a best-effort  
10          protocol.
- 1   2. The disk drive as recited in claim 1, wherein the time-constrained protocol employs the  
2          AV/C protocol, and the best-effort protocol employs the SBP-2 protocol.
- 1   3. The disk drive as recited in claim 1, further comprising offset parameters for identifying  
2          the beginning and end of the asynchronous partition.
- 1   4. The disk drive as recited in claim 3, wherein the offset parameters comprise a first  
2          parameter identifying the beginning of the asynchronous partition and a second parameter  
3          identifying the end of the asynchronous partition.
- 1   5. The disk drive as recited in claim 3, wherein the offset parameters comprise a first  
2          parameter identifying the beginning of the asynchronous partition and a second parameter  
3          identifying the size of the asynchronous partition.
- 1   6. The disk drive as recited in claim 1, wherein the disk comprises an AV file system for  
2          accessing the isochronous data.

- 1    7. A method of accessing a disk drive, the disk drive comprising a disk and a head actuated  
2    radially over the disk, the disk comprising an asynchronous partition and a first and second  
3    isochronous partition, the method comprising the steps of:  
4        (a) using a time-constrained protocol to read isochronous data from at least one of the  
5              first and second isochronous partitions; and  
6        (b) using a best-effort protocol to read asynchronous data from the asynchronous  
7              partition;  
8              wherein the asynchronous partition is located on the disk between the first and second  
9              isochronous partitions in order to reduce the seek time for the disk drive when seeking  
10          between the asynchronous and isochronous partitions.
- 1    8. The method of accessing a disk drive as recited in claim 7, wherein the time-constrained  
2    protocol employs the AV/C protocol, and the best-effort protocol employs the SBP-2  
3    protocol.
- 1    9. The method of accessing a disk drive as recited in claim 7, wherein the step of reading the  
2    isochronous data utilizes offset parameters for identifying the beginning and end of the  
3    asynchronous partition.
- 1    10. The method of accessing a disk drive as recited in claim 9, wherein the offset parameters  
2    comprise a first parameter identifying the beginning of the asynchronous partition and a  
3    second parameter identifying the end of the asynchronous partition.
- 1    11. The method of accessing a disk drive as recited in claim 9, wherein the offset parameters  
2    comprise a first parameter identifying the beginning of the asynchronous partition and a  
3    second parameter identifying the size of the asynchronous partition.
- 1    12. The method of accessing a disk drive as recited in claim 7, wherein the step of reading the  
2    isochronous data utilizes an AV file system stored on the disk.